



PATENT  
P56604

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06/26/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

JU-IL LEE

Serial No.: 10/073,898

Examiner: *to be assigned*

Filed: 14 February 2002

Art Unit: 2652

For: APPARATUS AND METHOD FOR PERFORMING SEEK-SERVO ROUTINE OF  
HARD DISK DRIVE

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner  
for Patents  
Washington, D.C. 20231

RECEIVED  
MAY 06 2003  
Technology Center 2000

Sir:

Pursuant to 37 C.F.R. §§ 1.56, and 1.97 and 1.98 applicant cites, lists, and discusses and encloses copies of the following art references cited in a *Notice to Submit Response* from the Korean Industrial Property Office issued on the 28<sup>th</sup> of March 2003 in corresponding Korean priority application No. 10-2001-0008999. ::

**FOREIGN PATENT REFERENCE:**

<b><u>Publication No.</u></b>	<b><u>Inventor</u></b>	<b><u>Published Date</u></b>
• JP 02-304777	Hibino <i>et al.</i>	18 December 1990
"Controller For Magnetic Disk Device"		
and English language Abstract for Hei 02-304777.		

- KR 1991-15989 Hasegawa *et al.* 30 September 1991  
"Method For Controlling The Determination Of Converter's Location"  
and English language Abstract for KR 1991-15989.

#### **OTHER DOCUMENTS:**

- *Notice to Submit Response* issued by the Korean Industrial Property Office on the 28<sup>th</sup> of March 2003 in Applicant's corresponding Korean priority application No. 10-2001-0008999 filed on the 22<sup>nd</sup> of February 2001, titled Apparatus and method for performing seek-servo routine of hard disk drive, and English language translation of the *Notice to Submit Response*.

#### **DISCUSSION**

In the *Notice To Submit Response* issued by the Korean Intellectual Property office on the 28<sup>th</sup> of March 2003, the Korean Examiner asserted that "Japanese Patent Publication No. hei 02-304777 (published 18 December 1990) discloses "a method for controlling a magnetic disk apparatus so as to locate a magnetic head apparatus at a target track", and Korean Patent Laid-open Publication No. 1991-15989 (published 30 September 1991) discloses "a method for controlling the determination of a converter's location by calculating a target position, target velocity, and the target acceleration every sampling period using a multinomial expression and placing a target object at a predetermined location based upon the target position, the target velocity, and the target acceleration."

As explained in the Korean Patent Abstract of Korean laid-open patent publication No. 1991-

15989, the "target position, a target velocity, and a target acceleration are expressed by a time-consuming multinominal expression based upon acceleration and deceleration patterns capable of minimizing the square of a differentiated value of acceleration of the target object."

Hibino JP 2304777 describes a "value calculation circuit 16 [that] forecasts the position of the next sample time by using the position of the present sample time, namely, a track number, velocity and acceleration and prepares a decided value and the forecasted value and decided value of the position are stored in a forecasted value and decided value storing circuit 17 after one time."

The citation of forgoing references is not tended to constitute representation to the Examiner that a search of the prior art has been made by the Applicant. Accordingly, the U.S. Examiner is requested to make a thorough and wide-ranging search of the prior art during the examination.

Pursuant to 37 C.F.R. § 1.97 (c)(1), each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement.

No fee is incurred by filing this Information Disclosure Statement.

Respectfully submitted,



Robert E. Bushnell  
Reg. No.: 27,774